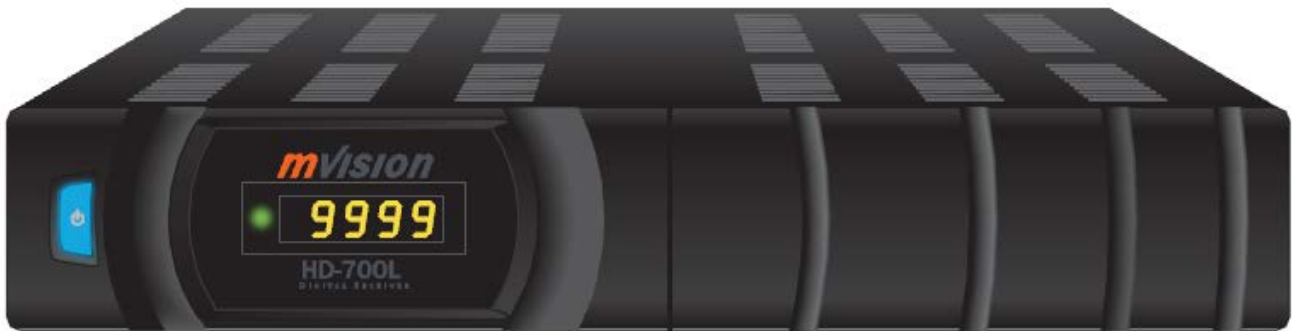


USER MANUAL

HD-700L

- ✓ Linux Operating System
- ✓ 450MHz Chipset
- ✓ H.264 & and MPEG-2/4 SD/HD (up to 1080P)
- ✓ PVR (external e-Sata or USB Storage)
- ✓ Media Center : Music, Vdeo & Picture
- ✓ VLC Player
- ✓ Streaming Protocol with RTP, UDP
- ✓ Plug-in : Weather, YouTube, WebCAM, IRC
- ✓ Linux Manager : RSS, Internet Radio, iPKG etc.
- ✓ External USB WiFi dongle ready



SAFETY INSTRUCTION

**CAUTION : PLEASE READ AND OBSERVE WARNING AND INSTRUCTION IN THIS USER'S MANUAL
AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.**

This STB(Set-top Box) has been designated and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you observe the following procedures for installation, use, and servicing. This unit does not contain any parts that can be repaired by the user.

**DO NOT REMOVE THE CABINET COVER. OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO
QUALIFIED SERVICE PERSONNEL ONLY.**

1. Read these instructions.

All these safety and operating instructions should be read before the product is operated.

The manufacturer takes no responsibility for damages as a result of incorrect handling of the product

2. Keep these instructions.

These safety, operating and use instructions should be retained for future reference.

3. Heed all warnings.

All warnings on the product and in the operating instructions should be adhered to.

4. Follow these instructions.

All operating and use instructions should be followed.

5. Do not use this apparatus near water.

For example, near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and like.

6. Clean only with dry cloth.

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instruction.

8. Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachment/accessories specified by the product.

12. Unplug this apparatus during lightning storms or when unused for long periods of time.

13. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen in the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

1. Hard Disk Drive (HDD).

Do not move the product or turn the power off suddenly while the Hard Disk Drive (HDD) is still running. This may result in damage to the HDD and thus the system. The manufacturer shall not be liable for any corruption of data on the HDD caused by careless use or misuse of users.

2. FAT file system USB Device.

When you use USB devices such as USB hard-disk drive (HDD) and USB memory stick with this product, you should make sure that the HDD be formatted in **NTFS file system not FAT**.

3. In case you use FAT formatted HDD or USB Memory Stick.

PVR feature is not supported. The receiver may not boot-up properly. Even with NTFS formatted USB HDD, please connect it to your receiver only after the receiver completed booting. If you power on/off the receiver with the FAT formatted USB device connected to the receiver, STB may get damaged or may not start properly.

4. Please turn off STB before you connect or disconnect a cable from a LNB.

5. Please turn off STB before you connect or disconnect a cable to a TV.

6. The LNB cable must be grounded

7. The battery should not be exposed to heat since they might explode.

Main Features

1-1. Features

- ✓ YouTube Player
- ✓ Weather information for 3 city
- ✓ VLC Player as RTP, UDP protocol with Multicast(or unicast)
- ✓ Media Center (Music(MP3), Picture(PNG, JPG, BMP), Video(AVI, MPG, XVID, MKV, etc) Player)
- ✓ Easy Software Update via Internet or USB
- ✓ Tele-text and subtitle out via OSD
- ✓ External USB WiFi dongle ready
- ✓ Multi Language & High Definition GUI such as English, Russian, German, Arabic and so on
- ✓ External USB or e-Sata PVR with Time Shifting, Recording & Playback
- ✓ Multi & Mono EPG (Electronic Program Guide)
- ✓ Powerful Extended EPG with Event Recording
- ✓ 12 Volts DC Adapter

1-2. Technical Specification

System and Chipsets:

Chipset STi7110(ST40 with SH4 Core) 450MHz

32MByte of NOR Flash ROM

256MByte of System RAM

Video Decoding and Resolution

H.264 (MPEG-4 part 10) and MPEG-2 HD/SD

HD display multi format capable (1080P, 1080I, 720P, 576P)

Audio Output

MPEG-1 Layer I & II & III, Dolby Digital Audio(AC3), AAC, HE-AAC

Operating System:

Linux Operating System kernel release 2.6.23.17

Input / Output:

1x DVB-S2

1x USB 2.0 input

2x Smartcard Readers

1x Composite (3 RCA - 1 x Video 2 x Audio R/L)

1x Scart

1x HDMI Output.

1x S/PDIF Interface for digital bit stream out (AC-3)

1x LAN (Ethernet) connection at 10/100Mbit

Dimensions:

220mm * 150mm * 40mm

Power Saving Note:

Stand-by consumption: <1W

Stand-by button: On/Off

12 Volts DC Adapter

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1. SET UP & CONNECTION

1-1. Packaging Contents

Make sure you have received all these items listed below with the STB(Set-top Box) product.

Set-top Box

RCU(Remote Control Unit)



Power Supply (Adapter)



Batteries for RCU



User Manual



1-2. Front Panel & Rear Panel

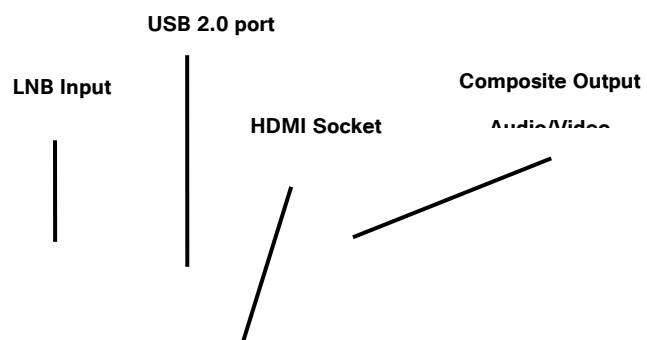
Front Panel

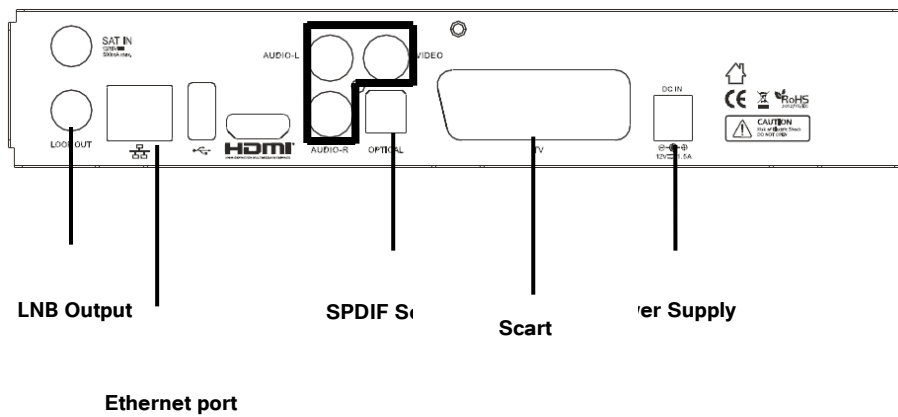
To control the STB, just touch the upper part of the printed letter on the front panel.

Power



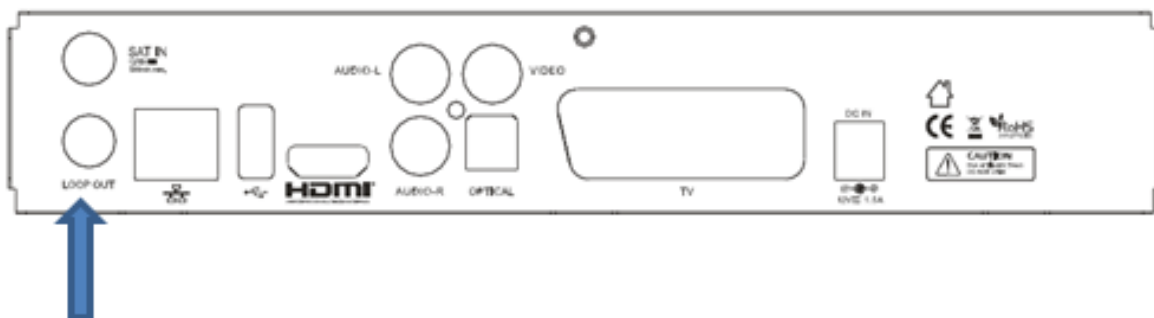
Back Panel





1-3. Connection to Antenna

Connect the cable from the antenna to the LNB IN socket on the back panel of the STB.



Cable from the satellite antenna

1-4. Connection to TV(or VCR)

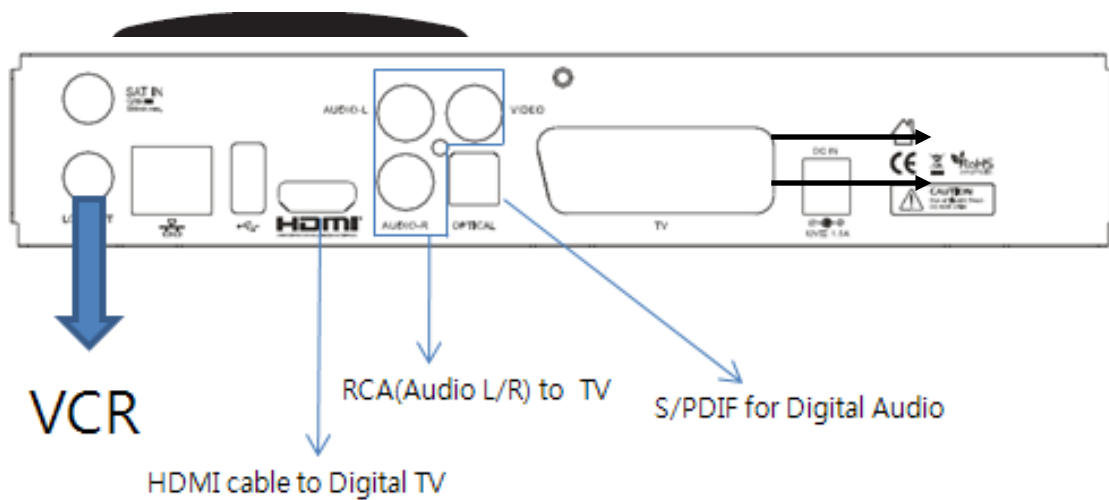
Connecting TV via HDMI cable

For the sake of the best picture quality, especially for digital TV, HDMI connection is recommended. Most HDTVs have HDMI connectors to ensure the highest picture quality. In the rear panel of STB, one HDMI connector is available for this purpose.

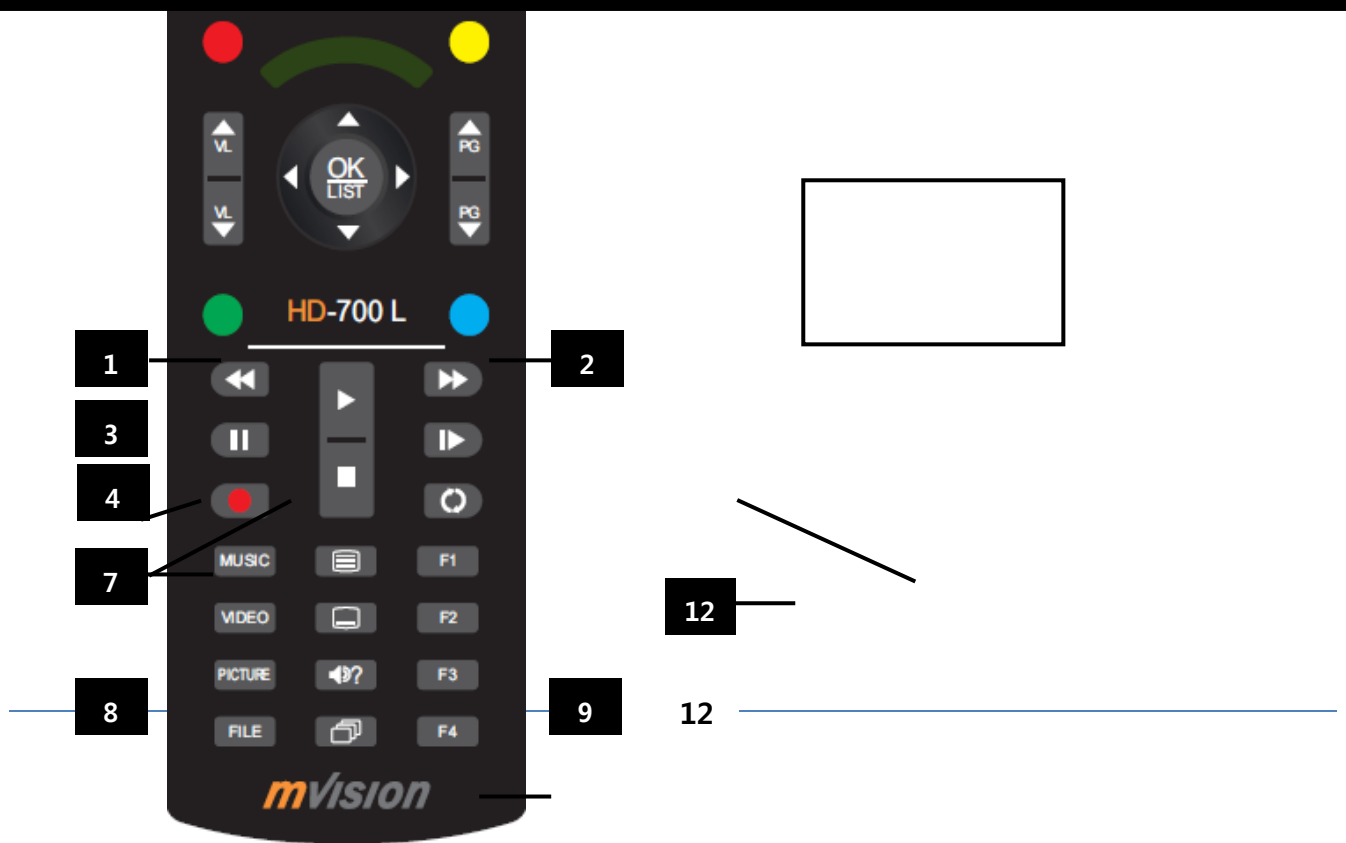
Connecting TV via Component Cable

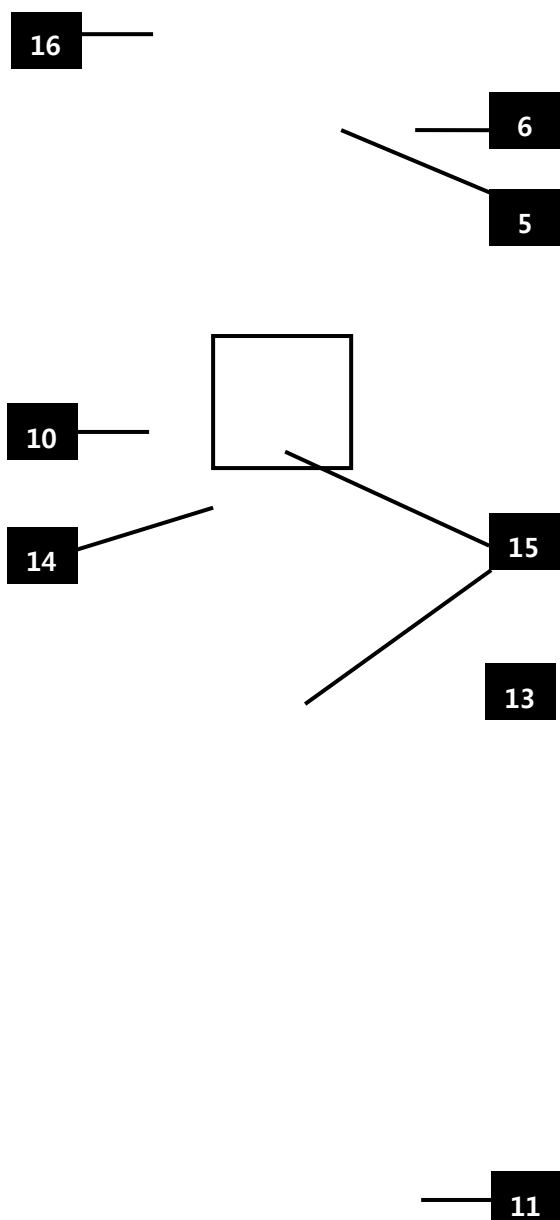
The secondly recommend TV connection for digital TV is via Composite video connection. Composite cable has normally three connectors at the both end; one Video (Yellow) and two Audio (White / Red)

When you have an A/V receiver with S/PDIF digital audio input, this connection is recommended to enjoy the best quality.



2. REMOTE CONTROL (RCU)





1. POWER

Select the STB On or Off.

2. MUTE

Switch the sound On or Off.

3. TV/RADIO

Switch the TV or radio mode.

4. RESOLUTION

Change resolution option.

5. RECALL

Back to the previous channel.

6. No function

Not assigned yet

7. NUMERIC KEYS

Enters channel number or the number required to be input according to menu options.

8. CHECKER

Check or select on each editing menu.

9. INFO

Display information.

10. VOLUMN +/-

Adjust the audio volume.

11. Page +/-

Navigate through the scanned channel list.

12. FAV

Display favorite channel list.

13. EPG

Display the Electronic Program Guide (EPG) information, if provided.

14. NAVIGATION KEYS

Navigate up/down and left/right on the menu options.

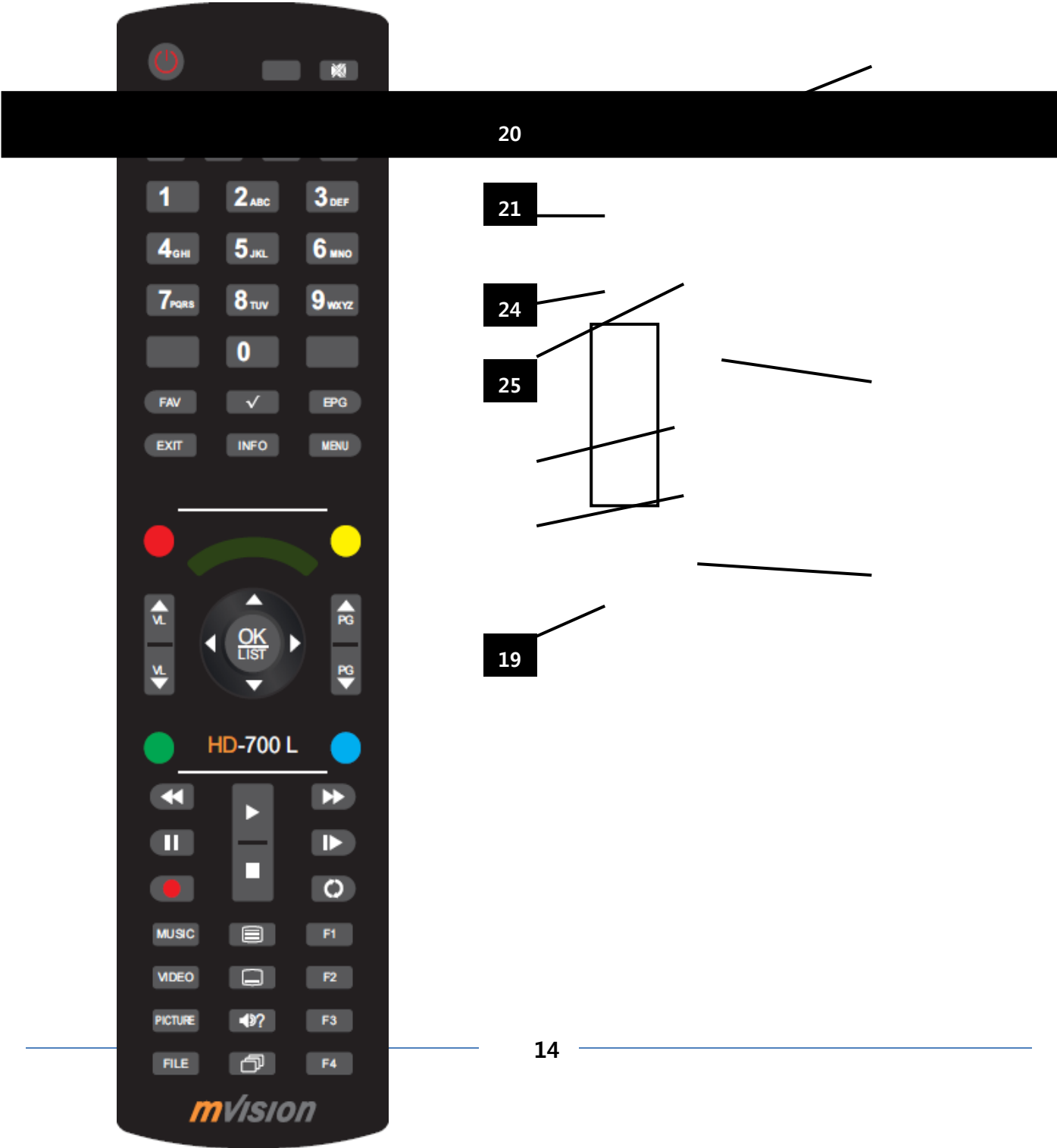
15. OK

Accepts your selection or displays the current mode.

18

16. EXIT

Exits the current menu option into the live mode, or switches one step back of the menu.



Display recording menu.

17. MENU

Display the main menu

18. COLOR KEYS

Each key is assigned a specific function that may be different in each menu

22

19. MUSIC/VIDEO/PICTURE/FILE

Move to the MUSIC or VIDEO or PICTURE or recorded FILE menu of the MEDIA CENTER.

23

20. FAST REWIND

Fast rewinds at up to 16 times faster than the normal speeds.(x2 / 4 / 8 / 16)

28

21. PAUSE

Pauses live program or recording play.

31

22. PLAY

Play the selected file at the normal speed

32

23. FAST FORWARD

Fast rewinds at up to 128 times faster than the normal speeds.(x2 / 4 / 8 / 16)

25. STOP

Stop playing of a recording and goes to live mode.

26. SLOW PLAY / FRAME PLAY

Play slowly or frame to frame.

27. REPEAT

Play repeatedly the recorded file.

28. TELETEXT

Display teletext, if provided.

29. SUBTITLE

Display subtitle pop-up menu, if provided.

30. ALTERNATIVE AUDIO

Display alternative audio pop-up menu, if provided.

31. MULTI-FEED

Display multi-feed pop-up menu, if provided.

32. No function

Not assigned yet

24. RECORDING

3. INITIAL TURNING ON

1. Place the batteries inside the battery compartment of the remote control keeping in mind the right polarity.

2. Before using the product, please read the safety instruction in this User Manual
3. Connect the LNB or antenna with a coaxial cable to LNB in or Antenna in at the STB.
4. Connect the STB to your TV using a HDMI cable
5. Plug in the power cable into STB and then into a power socket.
6. If you turn on your STB for the first time, you will see the Main Menu to set up

4. INSTALLATION

4-1. Antenna Setting (DVB-S2)

Open “Antenna Setting” menu

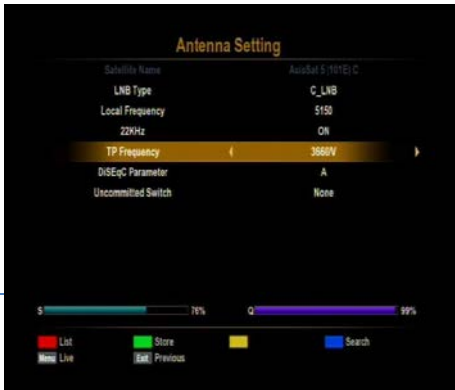
If no OSD menu is visible on your screen,
press the **Menu-Button** to open the main OSD
menu. Navigate to the option “Installation”.

- 1.Navigate to the option “Antenna Setting”
and press the **OK-Button**.
- 2.The “Antenna Setting” menu will open up.



Antenna Setting

- 1.Press the **RED-Button** to add the satellite.
The menu to select satellite will open up.



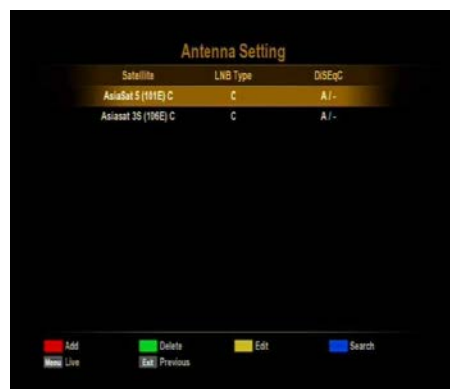
2. Select the proper options to search desired satellites.
3. Use the **Navigation-Button left and right** to select the desired satellite, LNB Type, Local Frequency, 22KHz, DiSEqC Parameter.
4. After completion of all options, press the **Green-Button** to store.
5. Press the **Blue-Button** to search channel.



4-2. Motor Setting (DiSEqC 1.2 & USAL)

If no OSD menu is visible on your screen,
press the **Menu-Button** to open the main OSD
menu. Navigate to the option “Installation”.

- 1.Navigate to the option “Motor Setting”
and press the **OK-Button**.
- 2.The “Motor Setting” menu will open up.



DiSEqC 1.2 Setting

- 1.Press the **RED-Button** to set up motor.
The menu to set up motor will open up.
- 2.Use to the **Navigation-Button left and right**
to select the Motor Type, desired satellite,
LNB Type, Local Frequency and TP Frequency.
- 3.Use the **up/down-Buttons** to navigate
to the “Drive” and press **Yellow-Buttons**
to navigate to set up additionally.
- 4.After completion of all options, press
the **Green-Button** to store.
- 5.Press the **Blue-Button** to search channel.



USAL Setting

- 1.Press the **RED-Button** to set up motor.
The menu to set up motor will open up.
- 2.Use to the **Navigation-Button left and right**
to select the Motor Type, desired satellite,
LNB Type, Local Frequency and TP Frequency.
- 3.Use the **up/down-Buttons** to navigate
to the “Drive Step” and press **Yellow-Buttons**



- to navigate to set up additionally.
- Use the **up/down-Buttons** to navigate to the "My Longitude" or "My Latitude" and press **Numeric Keypad** to type your location(*).
 - After completion of all options, press the **Green-Button** to store.
 - Press the **Blue-Button** to search channel.
- * You have to enter the geographical details of your residence. At <http://www.heavens-above.com/>
- ✗ **USLAS** is a model for calculating the position of all satellites in orbit with a margin of error less than 0.1 degrees. **USALS** was developed by the Stab company.
- Everything is done automatically and does not require any technical know-how.

4-3. Channel Searching

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Channel Searching".

Open "Channel Searching" menu

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Channel Searching".

- Navigate to the option "Channel Searching" and press the **OK-Button**.
 - The "Channel Searching" menu will open up.
 - Press the **BLUE-Button** to start search.
- Then, the receiver will search all channels of DVB-S/S2, T/T2, C.

Automatic Scan(DVB-S2)



You can see the progress of the search.

When the search is done, you can see this menu.

It shows how many channels were found during the search.

1. Press the **BLUE-Button(or MENU, EXIT)** to close this menu.

Manual Scan(DVB-S2)

1. Navigate to the option "Channel Searching".
2. Navigate to the option "Channel Searching" and press the **OK-Button**.

The "Channel Searching" menu will open up.

3. Use the **Navigation-Buttons left/right** to select **Manual Mode**. You can see this menu.
4. All other options can be changed by using the **Navigation-Buttons left/right**.
5. Press the **BLUE-Button** to start search.



Advanced Scan(DVB-S2)

1. Navigate to the option "Channel Searching".
2. Navigate to the option "Channel Searching" and press the **OK-Button**.

The "Channel Searching" menu will open up.

3. Use the **Navigation-Buttons left/right** to select **Advanced Mode**. You can see this menu.
4. Have to type the V-PID, A-PID, P-PID on options
5. All other options can be changed by using the **Navigation-Buttons left/right** or **Numeric Keypad**.
6. Press the **BLUE-Button** to start search.



Blind Scan(DVB-S2)

- 1.Navigate to the option “Channel Searching”.
- 2..Navigate to the option “Channel Searching” and press the **OK-Button**.

The “Channel Searching” menu will open up.
- 3.Use the **Navigation-Buttons left/right** to select **Blind Mode**. You can see this menu.
- 4.Have to type the V-PID, A-PID, P-PID on options
- 5.All other options can be changed by using the **Navigation-Buttons left/right** or **Numeric Keypad**.
- 6.Press the **BLUE-Button** to start search.



Fast Scan(DVB-S2)

- 1.Navigate to the option “Channel Searching”.
- 2..Navigate to the option “Channel Searching” and press the **OK-Button**.

The “Channel Searching” menu will open up.
- 3.Use the **Navigation-Buttons left/right** to select **Fast Mode**. You can see this menu.
- 4.Have to type the V-PID, A-PID, P-PID on options
- 5.All other options can be changed by using the **Navigation-Buttons left/right**
- 6.Press the **BLUE-Button** to start search.



Automatic Scan(DVB-T/T2/C)

- 1.Navigate to the option “Channel Searching” and press the **OK-Button**.
- 2.The “Channel Searching” menu will open up.
- 3.Press the **BLUE-Button** to start search.

Then, the receiver will search all channels of DVB-S/S2, T/T2, C.
- 4.If want to search channels of DVB-T/C, Change from tuner 1(DVB-S) to DVB-T/C.



Manual Scan(DVB-S2)

- 1.Navigate to the option "Channel Searching"
and press the **OK-Button**.
- 2.The "Channel Searching" menu will open up.
3. Use the **Navigation-Buttons left/right** to select **Manual Mode**. You can see this menu.
- 4.All other options can be changed by using the **Navigation-Buttons left/right** .
DVB-T/T2 : Modulation is Terrestrial
DVB-C : Modulation is Cable
- 5.Press the **BLUE-Button** to start search.



4-4. Software Updating

Software updating may be needed to fix some bugs or implement new functions. Some bugs that user may discover can be already fixed with an updated software.
Updating can be done via USB Stick and Internet.

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

via Internet

- 1.Navigate to the option "Installation".
- 2.Navigate to the option "Software Updating"
and press the **OK-Button**.
- 3.The "Software Updating" menu will open up.
- 4.Press the **GREEN-Button** to update software.
You can see this menu.
- 5.Press **GREEN-Button**(or OK) to select the software



- that you want to update. Blinking the led on front panel when updating the software.
- 6.After completion to update the software, keep on lighting the led on front panel.
- 7.Then, restart the Receiver.

via USB Stick

- 1.Navigate to the option "Installation".
- 2.Navigate to the option "Software Updating" and press the **OK-Button**.
- 3.The "Software Updating" menu will open up.
- 4.Use the **Navigation-Buttons left/right** to select USB Stick. You can see this menu.
- 5.Press **GREEN-Button** to update software.
- 6.Press **GREEN-Button**(or OK) to select the software that you want to update. Blinking the led on front panel when updating the software.
- 6.After completion to update the software, keep on lighting the led on front panel.
- 7.Then, restart the Receiver.



4-5. Default Setting

If no OSD menu is visible on your screen, press the

Menu-Button to open the main OSD menu.

Navigate to the option “Installation”.

1.Navigate to the option “Default Setting”

and press the **OK-Button**.

The “Default Setting” menu will open up.

2.Press **Green-Button** to return to the initial values.



5. BASIC OPERATION

5-1. Changing Channel

Pressing the **Up/Down-Buttons** on your remote control activates the channels.

Use the **Navigation-Buttons up/down** to select the desired channel and press the **OK-Button** to change to the selected channel.



5-2. Live Banner

The Live Banner appears and disappears by pressing Info-Button once, if no OSD menu is shown on your screen or when you change channel. The Live Banner shows all necessary information about the selected channel.



Is high-lighted yellow as soon as transmits of subtitle information.



Is highlighted yellow as soon as transmits Tele-texted information.



Is highlighted yellow as soon as channel is broadcasted with encryption.



Is highlighted yellow as soon as channel is broadcasted in Dolby Digital.

6. ELECTRONIC PROGRAM GUIDE (EPG)

6-1. Multi Channel Guide

By pressing the **EPG-Button** in Live-Mode you are supplied with multi channel guide.

Use the **Yellow and Blue Option-Buttons** to switch the previous day, next day and more views.

Press the **Green-Button** to find desired event.

Use the **Navigation-Buttons left/right/up/down** to move the desired event, and press the **Record-Button** to record the current or near-future event



Press **Info-Button** to watch detailed information for event.

Press the **RED-Button** to move the Timer Entry.

Press the **EPG-Button** to move the Mono-EPG

6-2. Mono Channel Guide

By pressing the **EPG-Button** in Multi Channel Guide you can see this menu.

Use the **Yellow and Blue Option-Buttons** to see the EPG of previous channel, next channel

Use the **Navigation-Buttons up/down** to move the desired event, and press the **Record-Button** to record the current or near-future event

Press the **RED-Button** to move the Timer Entry.

Press the **EPG-Button** to move the Multi-EPG



6-3. Timer Entry

By pressing the **EPG-Button** in Multi Channel Guide and then you can see this menu (left).

And by pressing the **RED-Button** to add the timer and then you can see this menu (right)..

Use the **Navigation-Buttons up/down** to change options(Timer Type, Channel and so on).

After complete, press **GREEN-Button** to store all options' values.



7. EDIT CHANNELS

7-1. Edit Channels

By pressing **CHECK-BUTTON** in channels mode, and press Password, you can enter the Edit Channels Mode.



Use the **Navigation-Buttons up/down** to move the desired channel, and press the **CHECK-BUTTON** to edit(move, delete, rename, lock).



Then, press **EDIT-BUTTON Red, Green, Yellow, Blue** to edit channel(s).

7-2. Edit Favorite Channels

By pressing **CHECK-BUTTON** in Favorite Channels, and press Password, you can enter the Edit Favorite Mode.



Add channels in Favorite

Use the **Navigation-Buttons up/down** to move the desired channel.
Press the **CHECK-BUTTON** and **RED-Button** to add Favorite.
(Use press **GREEN-Button** to add all channels of Provider or Satellite)



Add Favorites Group Folder

Use the **Navigation-Buttons RIGHT** to move the right side. Press the **RED-BUTTON** and type the group name.

Press the **Green-Button** to delete current Favorite Group.

Press the **Blue-Button** to move next Favorite Group.



Use the **CHECK-Button** to select the channel and press the **Yellow-Button** to delete them.



8. Personal Video Recording (PVR)

8-1. Instant Recording

Press the **RECORD-Button**.

You have 3 available options.

- Include Time-shift
- Current EPG Event Only
- After Event, Standby option

Use the **up/down/left/right-Button** to select desired options and Press **Green-Button** to record the channel.



During a recording you can watch another channel of same transponder. The number of simultaneous recordings depends on the number of channels residing on a transponder.

8-2. Recording by Timer (Timer Entry)

Use the **EPG-Button** to move in EPG Mode and press the **RED-Button** to enter Timer Entry Mode.



Pressing the **Green-Button** will delete a timer.

The **RED-Button** add a timer.

The **Yellow-Button** edit a timer

8-3. Watch a Recorded Video

Press the **Menu-Button** to open the main OSD menu. Navigate to the option “Media Center” and press the **OK-Button**.

Use the **Navigation-Button up/down** to select a record.

Press the **OK-Button** to start playing it.

Press the **OK-Button** to get back to the list of recorded video.

If you have previously watched the movie, the record will be played to continue where you left off.

If you want to watch it from starting, press the **GREEN-Button** to play at the beginning.



9. SETTING

9-1. Parental Control

If no OSD menu is visible on your screen, press



the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Setting".
2. Navigate to the option "Parental Control" and press the **OK-Button**.

9-2. Language Setting

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Setting".
2. Navigate to the option "Language Setting" and press the **OK-Button**.



9-3. Time Setting

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Setting".
2. Navigate to the option "Time Setting" and press the **OK-Button**.



9-4. PVR Setting

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Setting".
2. Navigate to the option "PVR Setting" and press the **OK-Button**.



9-5. AV Setting

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Setting".
2. Navigate to the option "AV Setting" and press the **OK-Button**.



9-6. IP Setting

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Setting".



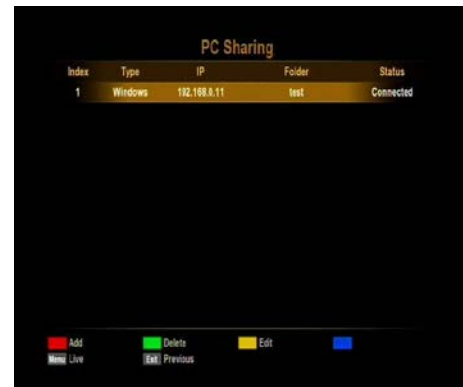
2. Navigate to the option "IP Setting" and press the **OK-Button**.

9-7. PC Sharing

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Setting".
2. Navigate to the option "PC Sharing" and press the **OK-Button**.

This is function that you can see the media contents, in the shared folder of your PC connected to the STB.



9-8. Other Setting

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Setting".
2. Navigate to the option "Other Setting" and press the **OK-Button**.



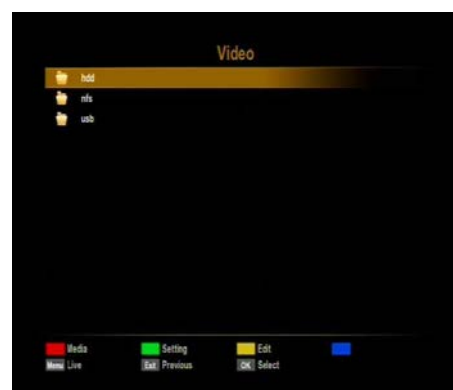
10. MEDIA CENTER

10-1. Music, Video, Picture

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Media Center".
2. Navigate to the option "Music", "Video", or "Picture" and press the **OK-Button**.

Network : Play the contents of shared folder of PC



- 3.. Use the **Navigation-Button up/down** and press the **OK-Button** to play desired contents.



10-2. Record

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Media Center".
2. Navigate to the option "Record" and press the **OK-Button**.
3. Use the **Navigation-Button up/down** and press the **OK-Button** to play desired contents



10-3. VLC Player

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Media Center".
2. Navigate to the option "VLC Player" and press the **OK-Button**.

When your pc is streaming via VLC Player, the receiver can play the contents.



11. PLUG-IN

11-1. Weather

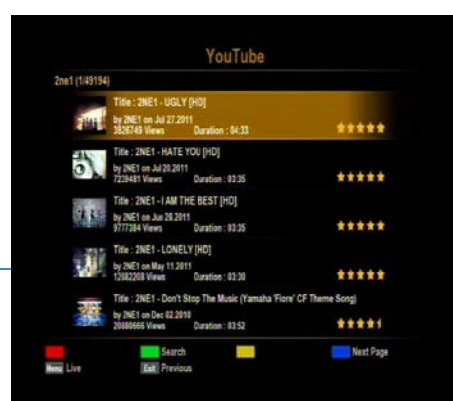
If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Plug-in".
2. Navigate to the option "Weather", and press the **OK-Button**.

You can see weather forecast of 3 cities.



11-2. YouTube



If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Plug-in".
2. Navigate to the option "YouTube",and press the **OK-Button**.
3. Use the **Navigation-Button up/down** and press the **OK-Button** to play desired contents

11-3. IRC

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Plug-in".
2. Navigate to the option "IRC",and press the **OK-Button**.
3. Press **Red-Button** to make nickname and **Green-Button** to connect the server. Then, **Yellow-Button** to connect chatting room.



11-4. WebCam

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Plug-in".
2. Navigate to the option "WebCam",and press the **OK-Button**.
3. Press **Green-Button** to start streaming web camera.



11-5. Manager

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Plug-in".
2. Navigate to the option "Manager", and press the **OK-Button**.
3. Use the **Navigation-Button up/down** and press the **OK-Button** to install desired contents



12. INFORMATION

12-1. About

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

1. Navigate to the option "Information".
2. Navigate to the option "About", and press the **OK-Button**.



